

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

PCT

see form PCT/ISA/220

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/GB2004/004572

International filing date (day/month/year)
29.10.2004

Priority date (day/month/year)
29.10.2003

International Patent Classification (IPC) or both national classification and IPC
G06K7/00, G06K19/07

Applicant
INNOVISION RESEARCH & TECHNOLOGY PLC

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

COPY

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/004572

10/577504

10/577504 17 APR 2006

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 - ☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
 - ☐ a sequence listing
 - ☐ table(s) related to the sequence listing
 - b. format of material:
 - ☐ in written format
 - ☐ in computer readable form
 - c. time of filing/furnishing:
 - ☐ contained in the international application as filed.
 - ☐ filed together with the international application in computer readable form.
 - ☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/004572

**Box No. V Reasoned statement under Rule 43b/s.1(a)(I) with regard to novelty, inventive step or
Industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	2-7,13,14
	No: Claims	1,8-12,15-18
Inventive step (IS)	Yes: Claims	
	No: Claims	1-18
Industrial applicability (IA)	Yes: Claims	1-18
	No: Claims	

2. Citations and explanations

see separate sheet

**WRITTEN OPINION OF THE
 INTERNATIONAL SEARCHING
 AUTHORITY (SEPARATE SHEET)**

International application No.

PCT/GB2004/004572

Re Item V.

1 Reference is made to the following documents:

D1 : WO 03/081787 A (NOKIA CORPORATION; NOKIA INC) 2 October 2003
 (2003-10-02)

D2 : WO 95/22138 A (SEATTLE SILICON CORPORATION) 17 August 1995 (1995-08-17)

2 Article 6 PCT

2.1 The problem of a RFID apparatus of the prior art, as outlined in the description on page 1, lines 20 - 22 and 27, is how to realise a dual mode reader/tag functionality in which both reader and tag functionality exist within the same apparatus, and reduce interference between the antennas.

Consequently, and as shown on page 1, lines 20 - 22 and page 2, lines 22 - 27, the following features are essential to the definition of the invention:

- an antenna used commonly to both receive said modulated RF signal and to transmit said generated RF signal (cf. claim 13), and
- the RFID apparatus having a dual mode reader/tag functionality.

Since independent claim 1 does not contain these features, it does not meet the requirements following from Article 6 PCT.

3 INDEPENDENT CLAIM 1

3.1 Furthermore, the present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claim 1 is not new in the sense of Article 33(2) PCT. Document D1 discloses (the references in parentheses applying to this document, cf. page 10, line 13 - line 23; page 11, line 12 - line 20; Figures 2A, 4):

a RFID apparatus (102) comprising: transmission means (220) for transmitting an RF

signal; reception means (220) for receiving a modulated RF signal; and demodulation means for demodulating a received modulated signal, wherein the apparatus comprises generating means (215) for generating a RF signal dependent on an incoming RF signal, said incoming RF signal being generated by different apparatus, and wherein the apparatus is arranged to transmit said generated RF signal such that said generated RF signal interferes (page 10, lines 14 and 15) with the incoming RF signal.

4 DEPENDENT CLAIMS 2-18

Dependent claims 2-18 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step (Article 33(2) and (3) PCT).

4.1 Document D1 also discloses the subject-matter as claimed in claims 8-12 and 15-18, as a result of which these claims are not new (Article 33(2) PCT).

4.2 Claims 2-7, 13 and 14 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step (Article 33(3) PCT).

4.3 The features as claimed in claims 2-7 are considered to represent general knowledge in the art of RFID apparatus.

3.4 The features as claimed in claims 13 and 14 are already known from document D2, in which also a dual mode reader/tag apparatus is described. The person skilled in the art would combine the teaching of this document with the teaching of document D1 to solve the posed problem, and arrive at the subject-matter of claims 13 and 14.